

Title (en)

METHOD FOR EVALUATING CHARACTERISTICS OF OPTICAL MODULATOR HAVING HIGH-PRECISION MACH-ZEHNDER INTERFEROMETER

Title (de)

VERFAHREN ZUR EVALUIERUNG VON EIGENSCHAFTEN EINES OPTISCHEN MODULATORS MIT EINEM HOCHPRÄZISEN MACH-ZEHNDER-INTERFEROMETER

Title (fr)

PROCÉDÉ D'ÉVALUATION DES CARACTÉRISTIQUES D'UN MODULATEUR OPTIQUE À INTERFÉROMÈTRE DE MACH-ZEHNDER HAUTE PRÉCISION

Publication

**EP 2251666 A1 20101117 (EN)**

Application

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Priority

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Abstract (en)

**Problem** An object is to provide a method for evaluating characteristics of individual Mach-Zehnder (MZ) interferometers in an optical modulator which includes a plurality of MZ interferometers. **Means for Solving Problems** The method comprises a step for adjusting a bias voltage of the MZ interferometer, a step for eliminating zero-order components, a step for measuring an output intensity and a step for evaluating characteristics. An optical modulator (1) includes the first MZ interferometer (2) and the second MZ interferometer (3). The first MZ interferometer (2) includes wave-branching section (5). Two arms (6,7), wave coupling section (8) and electrodes which is not shown in figures.

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